

ORDINANCE NO. 3100

AN ORDINANCE OF THE COUNCIL OF THE CITY OF SCOTTSDALE,  
MARICOPA

COUNTY, ARIZONA, AMENDING ARTICLE II OF CHAPTER 36, RELATING TO  
FIRE

PREVENTION AND PROTECTION, REPEALING THE ADOPTION OF THE  
UNIFORM

FIRE CODE, 1994 EDITION AND RELATED STANDARDS AND AMENDMENT  
AND

ADOPTING THE 1997 UNIFORM FIRE CODE VOLUME 1,2, APPENDICES,  
AND AMENDMENTS TO 1T.

BE IT ORDAINED by the Council of the City of Scottsdale, Arizona, as

follows:

Section 1. Section 36-17 of the Scottsdale Revised Code is hereby amended to

read as follows:

Sec. 36-17. Assumption of Jurisdiction; Adoption.

(a) Pursuant to the provisions of A.R.S. section 41-2163(a)(2), the City of Scottsdale, having in effect a nationally recognized fire code, does hereby assume jurisdiction from the State Fire Safety Committee for prescribing and enforcing minimum Fire Prevention Codes and Standards within the City of Scottsdale.

(b) The Uniform Fire Code, Volume 1, 1997 edition, the Uniform Fire Code Volume 2, 1997 edition, as published jointly by the international Fire Code Institute and all appendices are adopted by reference and shall be the fire code of the city. Three (3) copies of same shall at all times remain in the Office of the City Clerk and be open to inspection.

Exceptions: 1. UFC appendices I-C, II-B, II-D, IV-A, VI-D are adopted as code.

2. UFC appendices II-F, and III-B are deleted from adoption.

Section 2. Section 36-18 of the Scottsdale Revised Code is hereby repealed  
and replace by a new section 36-18, which shall read as follows:

Sec. 36-18. Amendments.

The Uniform Fire Code, 1997 Edition, is amended in the following respects:

Section 101 is amended by adding subsection 101.6.1 as follows:

conflict with the National Fire Protection Association (NFPA) Standards, which are incorporated by reference, The Most stringent shall apply, except as amended in this ordinance.

Section 103, Subsection 103.1.4 is amended to read:

"103.1.4 Board of Appeals "Reference to the "board" or "the Board of Appeals" in this code shall mean the building advisory board of appeals as established and referred to in Chapter 31, Article II of the Scottsdale Revised Code. The formation, term of office, qualifications of board members, removal, jurisdiction, procedure, quorum, and appeals procedure are hereby adopted and incorporated by reference as though fully set forth herein.

Section 216-0 is amended by adding the following:

Group R, Division 4

"Group R. Division 4 occupancies shall be residential group care facilities for ambulatory, non-restraint persons, who may have a mental or physical impairment ( each accommodating one ( 1 ) to ten ( 10 ) clients or residents, excluding staff ). Restraint of any occupants requires a Group I occupancy classification."

Section 901, subsection 901.4.2 is amended to read and 901.4.2 (3) AND 901.4.3.1

Is added as follows:

"901.4.2 Fire Apparatus Access Roads. The chief may establish fire lanes on public and private property for access and set-up for fire-fighting equipment apparatus and vehicles. See Fire Department Standards. All fire lanes shall be marked in the following manner:"

"1. Fire lane signs per Traffic Figure 10-3, Section 10, Design Procedures and Criteria, and/or

"2. Curb and/or street or driveway painted Red to indicate fire lane and labeled "FIRE LANE NO PARKING" in white block letters 3 inches (76.2mm) in height, 3/4 inch (19.5 mm) stroke, on the vertical face of the curb to indicate fire lane."

"3. Lettering shall not be greater than 50'-0" (15,240mm) apart and shall be posted at the beginning and end of the fire lane."

"it shall be unlawful for any vehicle, equipment or device to park in or block the fire lane. Any vehicle, equipment or device found parked in or blocking a fire lane shall be cited by police or the fire department."

"901.4.3.1. Fire Hydrants. All fire hydrant barrels aboveground shall have a prime coat plus two (2) coats of fire hydrant yellow paint."

"901.4.3.2 Reflective Markers. All fire protection equipment, fire department inlet connections and hydrants shall be clearly identified by installation of reflective blue markers. See also section 1001.7. and See City Of Scottsdale Supplemental Standard Details For Public Works Construction. Detail 2363"

Section 902, subsection 902.2.2.1.1 and 902.2.2.2.1 is added and 902.4 is amended as follows:

"902.2.2.1.1 City of Scottsdale Design Standards. For road construction details see City of Scottsdale Design Standards.

"902.2.2.2.1 Temporary Fire Department Access. Temporary fire Department access roadway prior to and during construction of Every facility, building or portion of a building shall install and Maintain a roadway 16'-0" (4,877mm) wide, with minimum 0'9" (101.6mm) Thickness of aggregate base course or decomposed granite Compacted to a 90% density where natural soil will not meet compaction requirements."

"902.4 Key Boxes. When access to or within a structure or an area is unduly difficult because of secured openings or where immediate access is necessary for lifesaving or firefighting purposes, the chief is authorized to require a key box OR KEY SWITCH to be installed in an accessible location. The key box shall be a type approved by the chief and shall contain keys to gain necessary access as required by the chief.

"A key box shall be required on all commercial structures that contain off-site monitored fire systems or when required by the chief. The key box shall be installed in a location adjacent to the main entrance of the structure. 4'-0" (1219.2mm) to 6'-0" (1829.8mm) above finished grade.

"A key switch shall be required on all electric entry control gates. The key switch shall be installed in a location on the gate control panel that is readily visible and accessible."

Section 903 subsection 903.4.2. 903.4.2.2 are amended and 903.4.2.1, 903.5.1,

903.5.2, 903.5.3 , 903.5.4 are added as follows:

"903.4.2 Fire Hydrant Spacing. Fire hydrants shall be spaced at the following maximum on center distances, measured on the street:

"1. R -3 Developments, Non-Hillside. One thousand two hundred (1200) feet (365,760mm) on center.

"2. R-3 Developments, Hillside. Six hundred (600) feet (182,880mm) on center. (Fire department interprets street grades to range from 9% to a maximum grade of 15%)

"3. All commercial and R-I multi-family developments. Seven hundred (700) feet (213,360mm) on center.

"Fire hydrants shall be accessible to the fire department apparatus by roads meeting the requirements of section 902.2. See City of Scottsdale Design Standards and policy manual for design and construction details."

"903.4.2.1.1 Dead Ends. On cul-de-sacs in residential and commercial developments the maximum distance to a hydrant shall not exceed one half (1/2) of the maximum allowable distance between fire hydrants designated in 903.4.2."

Exception: "Hillside shall have a maximum of six hundred (600) feet (182,880mm) from a hydrant to the dead end.

" 903.4.2.2 Subsections 903.4.2 and 903.4.2.1 of this section may be modified by the chief of the fire department or designer when features of the area, building construction details or practical difficulties prohibit the enforcement of the code, provided that the spirit of the code shall be observed, public safety secured and substantial justice done.

"903.5.1 Fire Department Connections. Fire department connections shall be located within four (4) feet (1219.2mm) to eight (8) feet (2438.4mm) of the curb line of an access road or public street, or as otherwise specified, or as approved by the chief. The access to the fire department connection shall be at curb grade. See Fire Department Standards.

"903.5.2 Distance to Hydrants. Fire department connections in all occupancies shall be within 350 feet (106,680mm) of a fire hydrant with approved tire flow, or as otherwise designated, or as approved by the chief prior to installation.

Exceptions:" 1. In H occupancies the fire department connections shall be within 150 feet (45,720mm) of a fire hydrant with approved fire flow.

2. R-3 Residential and R-I Multi-family residential occupancies.

"903.5.3 Supply Line. The fire department connection line shall be a wet line with the check valve at the hose connection above grade. See Fire Department Standards.

"903.5.4 Wall Mounted. Systems may have wall mounted fire department connections only on light and ordinary hazard Group 1 systems when there are no structural openings or combustible hangings within 15 feet (4572mm) horizontally or vertically from inlet connection. See Fire Department Standards."

"903.5.5 Group R, Division 1. In Group R, Division 1 occupancies the wall mounted fire department connection shall be accessible on the street side (access side) of the building located below the alarm bell at the main system control valve in accordance with Fire Department Standards.

"Section 1001, subsection 1001.4.1 and 1001.7.2 are amended and 1001.3.1, 1001.3.2, 1001.3.3, 1001.5.1.1, 1001.7.2.1 are added as follows:

"1001.3.1 Plan Certification For Fire Alarms And Occupant Notification. All fire alarm and occupant notification system plans submitted to the fire department for review and approval shall bear a review certification of a minimum level III NICET (National Institute for the Certification of Engineering Technologies) and a completed certificate of completion. See U.F.C. Volume 2, Sec. 10.4."

"1001.3.2 Plan certification for Fire Sprinklers. All fire sprinkler plans submitted to the Fire Department for review and approval shall bear a review certification of a minimum level III NICET Technician (National Institute for the Certification of Engineering Technologies) in accordance with Fire Department Standards.

"1001.3.3 PLAN CERTIFICATION FOR ALL OTHER FIRE PROTECTION SYSTEMS WILL BE ACCOMPANIED BY A MANUFACTURES CERTIFICATION OF COMPETENCE."

"1001.3.4 On - Site Plans. Plans and specifications shall be submitted to the fire department for review and approval prior to construction. One set of fire department approved plans shall be on the job site at all times.

"1001.5.2.1 Annual Inspection. Sprinkler systems in commercial and multifamily occupancies shall be inspected and tested in accordance with N.F.P.A. 25 and City of Scottsdale sprinkler standards by a contractor with an Arizona State L-16 license.

"1001.7.2 Clear Space and Access. A 3 foot (914.4mm) clear space shall be maintained around the circumference and in the access way to front of fire hydrants. Exterior fire protection control valves and fire department inlet connections except as otherwise required or approved by the Chief.

"1001.7.2.1 No Parking. A 15 foot (4572mm) wide no parking area directly in front of fire hydrants and fire protection equipment shall be maintained free from vehicle obstructions."

Section 1002 subsection 1002.1 is amended to read:

"1002.1 General. A minimum of one (1) portable fire extinguisher shall be installed in all occupancies."

Exceptions: "1. R-3 occupancies (i.e. one-family residences) and sprinklered R-I occupancies (i.e. multi-family residences) 3 stories or less."

"2. Sprinklered open parking garages.

"3. Occupancies where an extinguisher is in a secured accessible location within 75'-0"

(22,860mm) maximum travel distance of all portions of the occupancy.

"Portable fire extinguishers shall be in accordance with U.F.C. Volume 2. In all occupancies, the location of fire extinguishers are designated by Fire Department Standard or as determined by the chief.

Section 1003 subsection 1003.1.2 is amended and subsection 1003.1.3 is added as follows.

"1003 1.2 Standards. Fire-extinguishing systems shall comply with U.B.C., Volume 3 Nos.9-I, 9-2, 9-3, applicable National Fire Protection Association Standards, N.F.P.A. Section 1003.2.1 and Fire Department Standards."

Exception: "Automatic sprinkler systems may be connected to the domestic water supply main

when approved by the chief and the water department, provided the domestic water supply is of adequate pressure, capacity and sizing for the combined domestic and sprinkler requirements. In R-3 occupancies fire sprinkler piping shall connect to the domestic supply after the meter and after the main domestic shut off valve. Other than the combined shut off valve there shall be no connection for any purpose between the water meter and the fire sprinkler connection. All sprinkler systems connected to the domestic water supply must use quick response sprinkler heads with small orifices for low water discharge.

"1003.1.3 Modifications. For additions, alterations and repairs see section 1003.2.9, Section 1003, subsection, 1003.2.1, 1003.2.2, 1003.2.3, 1003.2.4, 1003.2.5, 1003.2.6; and 1003.2.8, 1003.2.7, 1003.2.9 are amended and subsection 1003.2.10, 1003.2.11, 1003.3.12, and 1003.2.13 is added as follows:

"1003.2.1 General. An automatic sprinkler system shall be installed and maintained in operable condition in all occupancies, structures, and locations as set forth in this section."

"For special provisions on hazardous chemicals and magnesium, aerosol products, and calcium carbide, see Sections 1001.9 and Articles 48, 49, 79, 80, 81, and 88."

"All automatic sprinkler systems shall have a vertical backflow preventer located in the system riser."

"Exception: R-3 occupancies and R1 occupancies with a combination domestic and automatic sprinkler system supply.

"1003.2.2 An automatic sprinkler system shall be installed throughout all levels of all new Group A, B, E, F, H, I, M, R, S and U occupancies of more than zero (0) square feet. In accordance with section 1003, Fire Department Standards and as set in this section.

"1. In every story or basement of all buildings. Fire-resistive substitutions in accordance with the provisions of Section 508 is allowed for this subsection for Group R occupancies and for other occupancies, provided that the automatic sprinkler is not otherwise required throughout the building by any other provision or section of the unamended building code.

"2. At the top of rubbish and linen chutes and in their terminal rooms. Chutes extending through three or more floors shall have additional sprinkler heads installed within such chutes at alternate floors. Sprinkler heads shall be accessible for servicing.

"3. In rooms where nitrate film is stored or handled.

"4. in protected combustible fiber storage Vaults as defined in the Fire Code

"5. In any building that has a change in occupancy as defined in the building code."

Exception: "The following accessory structures shall be exempt from fire sprinkler requirements:

"1. Gazebos and ramadas for residential and public use.

"2. Independent restroom buildings that are associated with golf courses, parks and similar uses.

"3. Guardhouses for residential and commercial developments.

"4. Detached carports for residential developments.

"5. Barns and agricultural buildings for private, residential, non-commercial use, not exceeding 1,500 square feet (139.35m<sup>2</sup>).

"6. Detached storage sheds for private, residential, non-commercial use, not exceeding 1,500 square feet (139.35m<sup>2</sup>).

Detached 1, 2 and 3 car garages (without habitable spaces) in existing R-3 developed parcels which contain existing non-sprinklered sub-division requirements (i.e. 700 foot (213,360mm) hydrant spacing.

"8. For fuel dispensing canopies see 5201.9.1"

"9. Open shade horse stalls of non-combustible construction for private, residential, non-commercial use, not exceeding 5,000 square feet (464.52 m2) and no storage of combustible products, vehicles, or agricultural equipment."

"10. Detached one story accessory building used as tool and storage shed of non-hazardous materials, and not exceeding 120 square feet (11.15 m2)."

"1003.2.3. Group A Occupancies.

1003.2.3.1 General. An automatic sprinkler system shall be installed throughout Group A occupancies in accordance with section 1003.1.2 through 1003.2.2 and 1003.2.3.

"1003.2.4 Group E Occupancies.

"1003.2.4.1 General. An automatic sprinkler system shall be installed throughout all Group E occupancies in accordance with section 1003.1.2. through 1003.2.2 and 1003.2.4.

"1003.2.4.4 Sprinklers. Quick response sprinkler heads shall be in all occupied areas in accordance with U.L. listing.

"1003.2.5 Group F Occupancies."

"1003.2.5.1 General. An automatic sprinkler system shall be installed throughout all Group F occupancies in accordance with section 1003.2.2."

"1003.2.6 Group H Occupancies."

"1003.2.6.1 General. An automatic sprinkler system shall be installed throughout all Group H occupancies in accordance with section 1003.1.2 Through 1003.2.2 and 1003.2.6 and Fire Department Standards.

"1003.2.7 Group I Occupancies."

"1003.2.7.1 General. An automatic sprinkler system shall be installed throughout Group I occupancies in accordance with section 1003.1.2 through 1003.2.2 and 1003.2.7.

"1003.2.7.2 Sprinklers. Quick response sprinkler heads shall be used in all occupied areas in accordance with U.L. listing.

Exceptions: " In jails, prisons and reformatories, the piping system may be dry provided a manually operated valve is installed at a continuously monitored location. Opening of the valve will cause the piping system to be charged. Sprinkler heads in such systems shall be equipped with fusible elements or the system shall be designed as required for deluge systems in NFPA Standard No. 13 and U.B.C. Standard No.9-1.

"1003.2. 8 Group M Occupancies.

"1003.2. 8 General. An automatic sprinkler system shall be installed throughout all Group M occupancies in accordance with section 1003.22."



"1003.2.9 Group R Occupancies.

"1003.2.9.1 Group R -1 When Attic Protection is Required. In Group R, Division 1 occupancies, an automatic sprinkler system in accordance with NFPA Standard 13-R, as modified by Fire Department Standards, shall be installed throughout every apartment house three or more stories in height or containing more than 15 dwelling units, and every hotel three or more stories in height or containing 20 or more guest rooms. Residential, or quick-response sprinkler heads shall be used in the dwelling unit and guest room portions of the building. Sprinkler heads shall be used to protect the attic with a minimum 4 head or 500 square foot (46.5m<sup>2</sup>) calculated area. Occupant notification shall be in accordance with Article 10. There shall be no sprinkler deletions in bathrooms, closets, containing any electrical or mechanical equipment, foyers,

garages, accessible areas under interior stairs or landings, or exterior balconies, covered patios or landings or attics."

" 1003.2.9.2 Group R-I When Attic Protection is Not Required. In Group R, Division 1 occupancies an automatic sprinkler system in accordance with NFPA Standard 13-R, as modified by Fire Department Standards, shall be installed throughout every apartment house 2 or less stories in height and containing 15 or less dwelling units and every hotel 2 or less stories in height and containing 19 or less guest rooms. Residential, or quick-response sprinkler heads shall be used in the dwelling units, guest rooms, convening corridors, and all occupied areas. There shall be no sprinkler deletions in bathrooms, closets containing any electrical or mechanical equipment, foyers, garages, accessible areas under interior stairs or landings, or exterior balconies, covered patios or landings.

" 1003.2.9.3 Group R-3 Occupancies Under 7500 Square Feet (697.5m<sup>2</sup>). In Group R, Division 3 occupancies an automatic sprinkler system in accordance with NFPA Standards 13-D, as modified by Fire Department Standards, shall be installed throughout every building. There shall be no sprinkler deletions in bathrooms, closets containing mechanical or electrical equipment, foyers, garages, or accessible areas under interior stairs or landings.

"1003.2.9.4 Group R-3 Occupancies 7500 Square Feet (697.5 m<sup>2</sup>) or More. In Group R, Division 3 Occupancies 7500 Square Feet (697.5m<sup>2</sup>).or more an automatic sprinkler system in accordance with NFPA Standard 13-D as modified in 1003.2.9.4.1 and Fire Department Standards, shall be Installed throughout every building. There shall be no sprinkler deletion in bathrooms, closets containing mechanical or electrical equipment, foyers, garages or accessible areas under interior stairs or landings.

"1003.2.9.4.1 Calculated Areas. The calculated area shall be increased from up to 2 heads in a compartment to up to 4 heads in a compartment."

"1003.2.9.5 Group R, Division 4. In Group R, Division 4 occupancies, an automatic sprinkler system in accordance with NFPA Standard 13-D. as modified by Fire Department Standards. shall be installed throughout every building. There shall be no sprinkler deletions in bathrooms, closets containing mechanical or electrical equipment, foyers, garages, or accessible areas under interior stairs or landings.

"1003.2.9.6 Domestic Water Supplies. R-I occupancies may have up to six (6) units supplied by domestic water.

"1003.2.9.7 Sprinklers. Systems supplied by domestic water shall use quick response residential sprinkler heads with small orifices for low water discharge throughout all occupied areas in accordance with U.L. listing and Fire Department Standards.

Section 1003, Subsection 1003.2.10, 1003.2.11, 1003.2.12, 1003.2.13 is added as follows.

"1003.2.10 Group B occupancies."

"1003.2.10.1 General. An automatic sprinkler system shall be installed throughout all Group B occupancies in accordance with section 1003.2.2."

"1003.2.11 Group S occupancies."

"1003.2.11.1 General. An automatic sprinkler system shall be installed throughout all Group U occupancies in accordance with section 1003.2.2."

"1003.2.12 Group U occupancies."

"1003.2.12.1 General. An automatic sprinkler system shall be installed throughout all Group U occupancies in accordance with section 1003.2.2."

"1003.2.13 Additions, alterations and repairs.

"1003.2.13.1 General. When additions, alterations or repairs within a twelve-month period exceed fifty (50) percent of the Value of an existing building or structure. such building or structure shall be made to conform to the requirements for new buildings or structures."

Exception: "Such building or structures shall be equipped with an approved fire sprinkler system when work exceeds ten (10) percent of the value of an existing building of assembly use or twenty-five

(25) percent of the value of an existing building or structure of other occupancies.

"1003.2.13.2 Partial Systems Prohibited. In all new additions to existing buildings and structures an automatic sprinkler system shall be installed in accordance with this section. There shall be no partially sprinklered compartments. Sprinklered and unsprinklered parts of a structure shall be separated in accordance with all applicable codes and standards.

Exception: "Structures in existing R-3 developed parcels which contain existing non-sprinklered requirements

(i.e. seven-hundred foot (213,360mm) hydrant spacing.)"

"1003.2.13.3 Furring, or other means of altering or modifying room sizes for the purpose of deleting fire sprinklers from compartments such as closets is prohibited without resubmittal of building plans through building department review.

Section 1004 subsections, 1004.1.1, 1004.2, and 1004.5 are amended to read:

"1004. 7.1 General. Stan